

Work Order No.: 17H0696

August 9, 2017

ArcelorMittal Indiana Harbor, LLC 3001 Dickey Road / Station 001 East Chicago, IN 46312-1610

Re: 009 + 010

Dear Tom Barnett:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 8/8/2017 3:35:00PM for the analyses presented in the following report as Work Order 17H0696.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Donna Ruokonen, Managing Director, at donna.ruokonen@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Karen Ziolkowski

Senior Project Manager



Date:

Wednesday, August 9, 2017

WORK ORDER SAMPLE SUMMARY

ArcelorMittal Indiana Harbor, LLC

Project: 009 + 010 **Lab Order**: 17H0696

Client:

 Lab Sample ID
 Client Sample ID
 Tag Number
 Collection Date
 Date Received

 17H0696-01
 Foamy Discharge
 009 + 010
 08/08/2017 13:26
 8/8/2017 3:35:00PM



Analytical Results Date: Wednesday, August 9, 2017

Client: ArcelorMittal Indiana Harbor, LLC

Client Project: 009 + 010

 Client Sample ID:
 Foamy Discharge
 Work Order/ID:
 17H0696-01

 Sample Description:
 009 + 010
 Sampled:
 08/08/2017
 13:26

 Matrix:
 Aqueous
 Received:
 08/08/2017
 15:35

Analyses Certs AT Result MDL RL Qual Units DF Analyzed Method: EPA 1664B Analyst: JBS Oil & Grease (HEM) by SPE Prep Date/Time: 08/09/2017 07:34 5.0 Oil & Grease (HEM) A 5.2 mg/L 08/09/2017 7:34 eij



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL

b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL

 b^* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BSD = Method Blank Spike

MSD = Method Blank Spike

MSD = Method Blank Spike

MSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

CCB = Continuing Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

OPR = Ongoing Precision and Recovery Standard

PDS = Post Digestion Spike

QCS = Quality Control Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- i Kansas Dept Health & Env. NELAP (#E-10397)
- Kentucky Wastewater Laboratory Certification Program (#90147)

Microbac Laboratories, Inc.



COOLER INSPE	CTION			Date:	Wednesd	ay, August 9, 20	17
Client Name: Arcelo	rMittal Indiana Harbor, LLC	Date/Time Rec	Date/Time Received: 08/08/2017 15:35				
Work Order Number:	17H0696	Received by:	Nicole	Rainwate	er		
Checklist completed b	y: <u>8/8/2017 5:41:00PM</u>	Nicole Rainwater	Reviewed by:	8/9/2	017	BF	
		Carrier Name: Micro	obac				
	Cooler ID: Default Cooler	Container/Te	mp Blan	k Temperat	ure: 9.3	3° C	
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	If No, adjusted	l by?					
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17H0696-01	Foamy Discharge	Ruch			••••		

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Chain of Custody Record Number 141970	R R	[] Results Only	[] Level III	() Ixvel IV	aga ()			ved										[] Return [] Archive				Page 4
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5713 West 85th Street. Indianapolis, IN 46278 Tel: 317-872-1375 Fax: 317-872-1379		[] Routi	KUSE			N	HOO	(SW), Waste Wate fate, (8) Sodium T	Requested Analyses	Preservative Types **		C						Sample Disposition	Time 1535	líme	Tine	19999990000000000000000000000000000000
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250 West 84th Drive Merrilville, IN 46410 Tel: 219-769-8378 Fax: 219-769-1664				Compliance Monitoring? [] Yes	grassi	Sampler Signature		, Groundwater (etate, (6) Metha	рə	sollect	$_{ m Dat}$	2//2/8] Radioactive	Relinquished By (signature)	d By (signature)	d By (signature)	
250 West 84th Drive Merrillville, IN 4641 Tel: 219-769-8378 Fax: 219-769-4664	Project	Location	*	mpliance]	(1) Agency/Program	Samp		iter (DW) 3) Zinc Ax		posite	Pilte			 				[] Radi	inquishe	Relinquished	Relinquished	
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Subn	HU			*		101	[] Telephone [] Fax (fax #)	* Matrix Types: Soil/Soild (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved		e m		0004000		***************************************				[] Hazardons	To be completed by Microbac Temperature Upon Receipt (°C)	Samples Received on Ice?		
MICROBAC®) av		Zip	T Bacie	**	y (PRINT)	orrvia [] Mail	* Matrix Types: S ** Preservative Types: (Client Sample ID		Discharge	,			***************************************		Possible Hazard Identification		okonoxia do oceano	oodooicedoo	15
17H0696 ArcelorN 009 + 010 08/08/20	3	irey (IH W	3adz est	ala								70802						Possible	Comments	************************************		rev.6/18/15
